

# Building the Green Mountain Habitat Passive House at Preferred Building Systems Claremont, NH

Construction details

Chet Pasho

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# “Modular Building”



# Beginning of floor system- open web joists, LVL to reduce columns in basement

8-2-2010



4" Foam blocking on outside perimeter of floors  
– open web joists – urethane adhesive on floors



# EPDM gasket on floors.



# EPDM gasket at floor and wall intersections



Spraying the foam seal - attaches the sheetrock to framing and makes air-tight assembly



# Sheetrock air-sealed to framing





# Lifting wall section off framing table



# Assembled walls on floor for ½ of 1<sup>st</sup> floor



# Insulated headers – built load specific



# Full sheetrock air-seal behind tub



# Foam sprayed on sheetrock joints at tub to complete air-seal



# OVE framing

(partial double plate is temporary for lifting)



# 20" raised Heel folding truss w/ EPDM gasket between walls and ceiling



# 13 3/8" window buck clapboard drainage under window





It takes lots of foam to build a passive house...



# And lots of cellulose insulation



# Installed dense pack cellulose

(not habitat house)



# Air seal around plumbing vents



# Radon vent and ERV ducts



# Silicone sealing of wires penetrating exterior insulation



# Exterior insulation details



# Air sealing of wall sheathing





# Wide strapping on corners



# Folded shed roof



# Eave framing on shed roof



# Front door area

8-17-2010  
10 working days



6:30 AM 9/10/2010

# On the launch pad Claremont, NH



# Cut-away









# Coming in for landing







9-10-2010  
1:30 PM in Charlotte, VT

